

NOAA CoastWatch

U.S. coastal sea surface temperature and other products

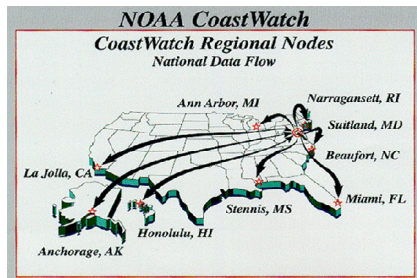
NOAA CoastWatch is a program organized to produce near-real-time coastal ocean analysis products derived from AVHRR satellite data and to make these products available to U.S. decision-makers, researchers, and other users. The primary product is sea surface temperature (SST) for the Great Lakes, northeast and southeast coasts, the Gulf of Mexico, Aleutian Islands, West Coast and Hawaii at 1.1 km and 4 km resolutions and for Jamaica and Puerto Rico at 1.1 km resolution. Channel 1, channel 2 and solar zenith angles are available for selected subregions for calculating turbidity.

The raw data from which these products are derived are collected using the Advanced Very High Resolution Radiometer (AVHRR), a radiation-detection instrument onboard one of NOAA's TIROS-n Polar-Orbiting

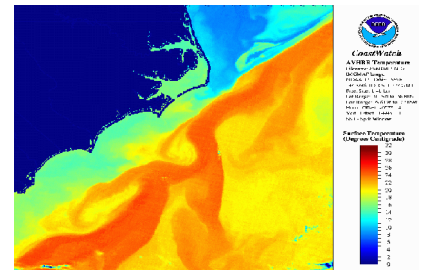
Environment Satellites. The data products are produced from HRPT (High Resolution Picture Transmission) 1.1 km resolution (at nadir) direct readout data obtained in real time. Areas covered by HRPT are confined to those regions over which the satellite is within line of sight of a ground station.

The product format is compressed binary with a 512-byte header record, and approximately 512 data records of 512 bytes each. Users must decompress the data files (PC source version available) and provide their own image display capability.

Over 1.2 million images, dating back to 1989, are archived at the National Oceanographic Data Center. These data are currently available online via the NOAA CoastWatch Active Access System. Data may also be requested on magnetic tape, CD-ROM or other media.



CoastWatch



Data Availability

The NODC provides access to coastal AVHRR images for specific geographic areas around the coastal United States (see page 2). The images available through NCAAS are near-real-time products, available within 24 hours for the East Coast, Gulf of Mexico, Great Lakes and Caribbean regions. Data covering the West Coast, Alaska and Hawaii areas are generally available within 3 working days. The date of the earliest available images varies by region. Data are freely available to all interested users, but are of primary interest to researchers and coastal resource managers. To gain access to the historical data available in NCAAS, users must first register with NODC. Users are asked to provide the following information:

- full name
- physical mailing address
- telephone and fax numbers

- e-mail address
- brief description of how you hope to use the data

Requests for NCAAS data access should be directed to:

National Oceanographic Data Center
NOAA/NESDIS E/OC1
SSMC-3, 4th Floor
1315 East-West Highway
Silver Spring, MD 20910-3282

Telephone: 301-713-3272
Fax: 301-713-3302
Web Registration:
<http://www.nodc.noaa.gov/cgi-bin/cwatch/puffin>

For more information on CoastWatch visit our web page at <http://www.nodc.noaa.gov>

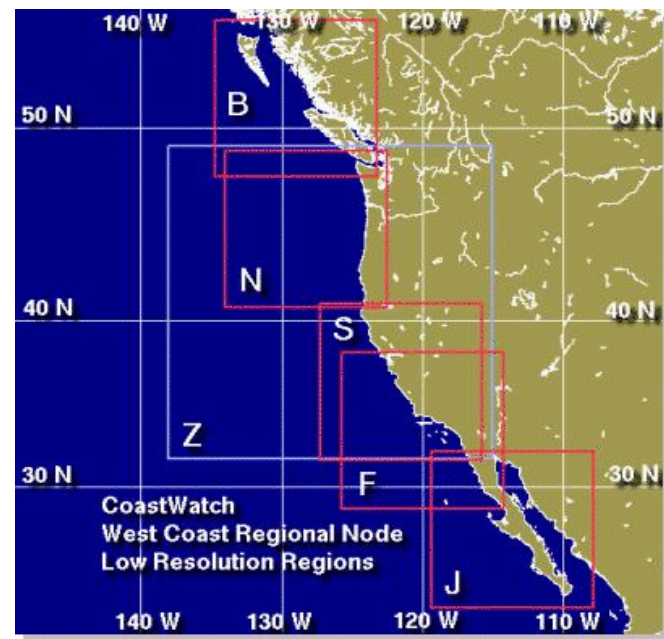


U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Environmental Satellite, Data and Information Service
National Oceanographic Data Center

Revised, November 1998

Region/Subregion	Coverage Dates	Res.	Area of coverage			
S SouthEast Region						
SouthEast Synoptic	890315 PRESENT	4.41	19.34	37.09	-87.90	-67.63
North Carolina	890216 PRESENT	1.47	31.45	37.03	-79.83	-73.07
South Carolina & Georgia	920623 PRESENT	1.47	30.36	36.01	-81.69	-74.93
East Florida	920623 PRESENT	1.47	25.02	30.98	-81.77	-75.01
South Florida	920623 PRESENT	1.47	22.97	29.04	-85.04	-78.29
West Florida	920624 PRESENT	1.47	24.99	30.95	-87.67	-80.91
Extended SouthEast Region	950131 PRESENT	4.0	18.00	34.41	-77.16	-58.78
Full Regional Panel (8 maps)	951025 PRESENT	1.47	22.62	36.87	-72.77	-87.83
G Great Lakes						
Great Lakes Synoptic	901009 PRESENT	3.6	38.88	50.57	-92.39	-75.85
Lake Michigan & Lake Huron	901012 PRESENT	1.8	40.77	46.73	-88.05	-79.77
Lake Superior, Northern Lake Michigan	901009 PRESENT	1.8	43.59	49.28	-92.41	-84.13
Lake Huron, Erie, & Ontario	901015 PRESENT	1.8	40.77	46.73	-84.16	-75.88
Full Regional Panel (8 maps)	940331 PRESENT	1.8	38.89	50.59	-92.40	-75.84
E NorthEast Region						
NorthEast Synoptic	910527 PRESENT	4.41	30.32	46.13	-79.00	-58.73
Gulf of Maine	910527 PRESENT	1.47	41.09	45.98	-71.20	-64.45
Georges Bank	920825 PRESENT	1.47	38.64	43.72	-71.95	-65.20
Dump Site 106	920210 PRESENT	2.00	34.20	41.45	-76.01	-66.81
Southern New England	920825 PRESENT	1.47	37.64	42.80	-75.77	-69.02
Chesapeake Bay	910529 PRESENT	1.47	34.51	39.88	-77.47	-70.71
Full Regional Panel (8 maps)	941025 PRESENT	1.47	17.82	31.02	-79.73	-98.23
Extended Northeast Region	920201 PRESENT	5.31	31.84	50.04	-66.75	-42.39
M Gulf of Mexico						
Gulf of Mexico Synoptic	910530 PRESENT	4.41	12.84	31.49	-99.11	-78.84
Texas	920623 PRESENT	1.47	24.29	30.29	-97.97	-91.22
Louisiana and Mississippi	920623 PRESENT	1.47	25.04	31.00	-94.01	-87.25
Yucatan Peninsula	920916 PRESENT	1.47	17.82	24.13	-90.37	-83.62
West Florida	920624 PRESENT	1.47	25.04	31.00	-87.67	-80.91
Full Regional Panel (8 maps)	920703 PRESENT	1.47	17.82	31.02	-98.23	-79.73
C Caribbean Region						
Jamaica	910529 PRESENT	2.20	13.12	22.73	-80.04	-69.93
Puerto Rico	910606 PRESENT	1.47	14.75	21.17	-70.37	-63.61
W West Coast						
West Coast Synoptic	911120 PRESENT		29.74	50.16	-141.96	-114.98
Northwest Region	940112 PRESENT	2.5	38.88	49.10	-132.09	-121.88
Southwest Region	940112 PRESENT	2.5	28.88	39.10	-124.59	-114.38
Oregon	940112 PRESENT	1.1	39.94	45.05	-128.54	-123.43
Washington	940112 PRESENT	1.1	44.94	50.05	-127.54	-122.43
Northern California	940112 PRESENT	1.1	34.94	40.05	-125.54	-120.43
Central California	950419 PRESENT	1.1	29.77	50.18	-114.95	-141.98
Southern California	940112 PRESENT	1.1	29.94	35.05	-121.54	-116.43
Nodal Synoptic	940301 PRESENT	5.0	31.75	49.11	-138.01	-114.98
British Columbia Synoptic	980625 PRESENT	2.5	47.66	54.84	-134.75	-123.24
Northern Baja Mexico	980625 PRESENT	1.1	28.55	32.90	-119.03	-113.96

Region/Subregion	Coverage Dates	Res.	Area of coverage			
CalCOFI Synoptic	980625 PRESENT	2.5	28.57	38.16	-125.75	-114.24
Baja Mexico Synoptic	980625 PRESENT	2.5	22.02	32.24	-119.35	-107.84
Vancouver Island	980625 PRESENT	1.1	47.93	51.21	-127.78	-122.71
H Hawaii						
Hawaii Synoptic	911120 PRESENT		10.94	28.17	-166.22	-147.84
Hawaii Main Is. Mesoscale	931117 PRESENT		17.15	23.25	-160.73	-154.27
A Alaska						
Aleutian Islands Synoptic	911120 PRESENT		34.79	54.97	161.13	200.94
Beaufort	960304 PRESENT	1.50	76.59	68.32	179.01	-161.73
Chukchi	960304 PRESENT	1.50	74.79	69.51	150.71	178.91
Gulf of Alaska	960304 PRESENT	1.50	60.87	55.02	-146.10	-132.02
Anchorage	960311 PRESENT	1.50	62.14	54.77	-159.00	-147.52
Juneau	960304 PRESENT	1.50	59.94	53.70	-142.26	-129.32
Aleutian	960311 PRESENT	1.50	63.85	58.02	-174.81	-159.02
Alaska N. synoptic	960326 PRESENT		74.79	61.71	150.71	-166.51
Alaska S. synoptic	960304 PRESENT		60.87	48.03	-146.10	-122.54
Bering Strait	960304 PRESENT	1.50	68.30	62.56	159.72	178.98
Unalaska	960327 PRESENT	1.50	58.71	52.86	-172.06	-159.02
Vancouver	960304 PRESENT	1.50	55.00	48.02	-132.00	-122.52
Alaska W. synoptic	960311 PRESENT		63.85	50.87	-174.81	-148.78
Alaska S.	960304 PRESENT		60.87	48.02	-146.10	-122.52
Alaska W.	960304 PRESENT		63.85	50.85	-174.81	-148.77
Alaska N.	960304 PRESENT		74.79	61.70	150.71	-166.48



CoastWatch Regional Nodes

Southeast - Jon Hare

NOAA/NMFS Beaufort Laboratory
101 Pivers Island Road, Beaufort, NC 28516-9722
Phone: (252) 728-8732 Fax: (252) 728-8784
E-Mail: jhare@hatteras.bea.nmfs.gov
Operations: Linda Matthews, (252) 728-8773
E-mail: lmattthews@hatteras.bea.nmfs.gov
WWW: <http://www.bea.nmfs.gov>

Great Lakes - George A. Leshkevich

NOAA/OAR/Great Lakes Environmental Laboratory
2205 Commonwealth Blvd
Ann Arbor, MI 48105-1593
Phone: (734) 741-2265 Fax: (734) 741-2055
E-mail: leshkevich@glrl.noaa.gov
Operations: Songzhi Liu
Phone: (734) 741 2349
E-mail: sliu@glrl.noaa.gov
WWW: <http://www.glrl.noaa.gov/>

Gulf of Mexico - Tom Leming

NOAA/NMFS Southeast Fisheries Science Center
Bldg. 1103, Room 218
Stennis Space Center, MS 39529-6000
Phone: (601) 688-1214 Fax: (601) 688-1151
E-mail: tom@bluefin.ssc.nmfs.gov
Operations: Charles Morgan, (601) 688-2585
E-mail: cmorgan@conch.ssc.nmfs.gov
WWW: http://conch.ssc.nmfs.gov/cwatch/home_page.html

West Coast - Ron Lynn

NOAA/NMFS Southwest Fisheries Science Center
8604 La Jolla Shores Drive (P.O. Box 271)
La Jolla, CA 92038-0271
Phone: (619) 546-5613 Fax: (619) 546-5614
E-mail: Ron.Lynn@noaa.gov
Operations: Peter Hollemans, (619) 546-7083
E-mail: peterh@cwatchwc.ucsd.edu
WWW: <http://cwatchwc.ucsd.edu/>

Northeast - Grayson Wood

NOAA/NMFS Narragansett Laboratory
28 Tarzwell Drive
Narragansett, RI 02882-1199
Phone: (401) 782-3286 Fax: (401) 782-3201
E-mail: grayson@fish1.gso.uri.edu
Operations: TBD
WWW: <http://narwhal.gso.uri.edu/cwatch.html>

Caribbean - Stephen Baig

Tropical Prediction Center
NOAA/NWS
11691 SW 17th Street
Miami, FL 33165-2149
Phone: (305) 229-4444 Fax: (305) 229-9901
E-mail: ocean@nhc.noaa.gov
Operations: TBD

Central Pacific - Mike Laurs

NOAA/NMFS Southwest Fisheries Science Center
Honolulu Laboratory
2570 Dole Street
Honolulu, HI 96822-2396
Phone: (808)-943-5301 Fax: (808) 943-2396
E-mail: mlaurs@honlab.nmfs.hawaii.edu
Operations: Dave Foley
Phone: (808) 943-5305 Fax: (808) 943-2902
E-mail: dfoley@honlab.nmfs.hawaii.edu
WWW: <http://coastwatch.nmfs.hawaii.edu/>

Alaska - Gary Hufford

NOAA/NWS - Alaska Region
222 W. 7th Avenue #23, Room 517
Anchorage, AK 99513-7575
Phone: (907) 271-3886 Fax: (907) 271-3711
E-mail: Gary.Hufford@noaa.gov
Operations: Jeff Cotterman
Phone: (907) 271-3489 Fax: (907) 271-3072
E-mail: Jeff.Cotterman@noaa.gov

CoastWatch Central Operations

Program Manager - Kent Hughes

NOAA/NESDIS
Office of Satellite Data Processing and Distribution
Phone: (301) 457-5688 Fax: (301) 457-8649
E-mail: khughes@nesdis.noaa.gov

Operations - Bob Stone

NOAA/NESDIS
Office of Satellite Data Processing and Distribution
Phone: (301) 763-8142 x134 Fax: (301) 899-2526
E-mail: rstone@ssdnotes.web.noaa.gov
WWW: <http://coastwatch.noaa.gov>

Product Preparation and Distribution - John Sapper

NOAA/NESDIS
Office of Satellite Data Processing and Distribution
Phone: (301) 457-5195 Fax: (301) 457-5199
E-mail: jsapper@nesdis.noaa.gov

Data Validation - Bill Pichel

NOAA/NESDIS
Office of Research and Applications
Phone: (301) 763-8231 fax: (301) 763-8020
E-mail: wpichel@nesdis.noaa.gov

NOAA CoastWatch Active Access System

NOAA/NESDIS
National Oceanographic Data Center
Phone: (301) 713-3272 Fax: (301) 713-3302
E-mail: wwilmot@nodc.noaa.gov